18FY6

TWIN DIODE—HIGH-MU TRIODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:			
Voltage (AC or DC)	18 ± 10%		volts
Current	0.1		amp

Direct Interelectrode Capacitances:

	Without External Shield	*With External Shield*°	
Triode grid to triode plate	1.8	1.8	μμf
Triode grid to cathode and heater	2.4	2.4	μμf
Triode plate to cathode and heater	0.22	2	μμf
Plate of diode unit No.2 to triode grid	0.2 max.	0.2 max.	μμf

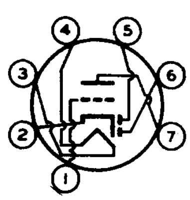
Characteristics, Class A_1 Amplifier (Triode Unit):

Plate Voltage	100	volts
Grid Voltage	-1	volt
Amplification Factor	100	
Plate Resistance (Approx.)	77000	ohms
Transconductance	1300	μmhos
Plate Current	0.6	ma

Mechanical:

Operating Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	*See General Section*
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW	7BT

Pin 1 - Grid of Triode Unit
Pin 2 - Cathode of Triode Unit and Diode Units No.1 and No.2
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate of Diode Unit No.2
Pin 6 - Plate of Diode Unit No.1
Pin 7 - Plate of Triode Unit

° With external shield JEDEC No.316 connected to cathode.

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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TRIODE UNIT — AMPLIFIER — Class A_1

Maximum Ratings, *Design-Maximum Values:*

PLATE VOLTAGE	150 max.	volts
GRID VOLTAGE:		
Positive-bias value	0 max.	volts
PLATE DISSIPATION	0.5 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	100 max.	volts
Heater positive with respect to cathode	100 max.	volts

DIODE UNITS — Two

Maximum Ratings, *Design-Maximum Values:*

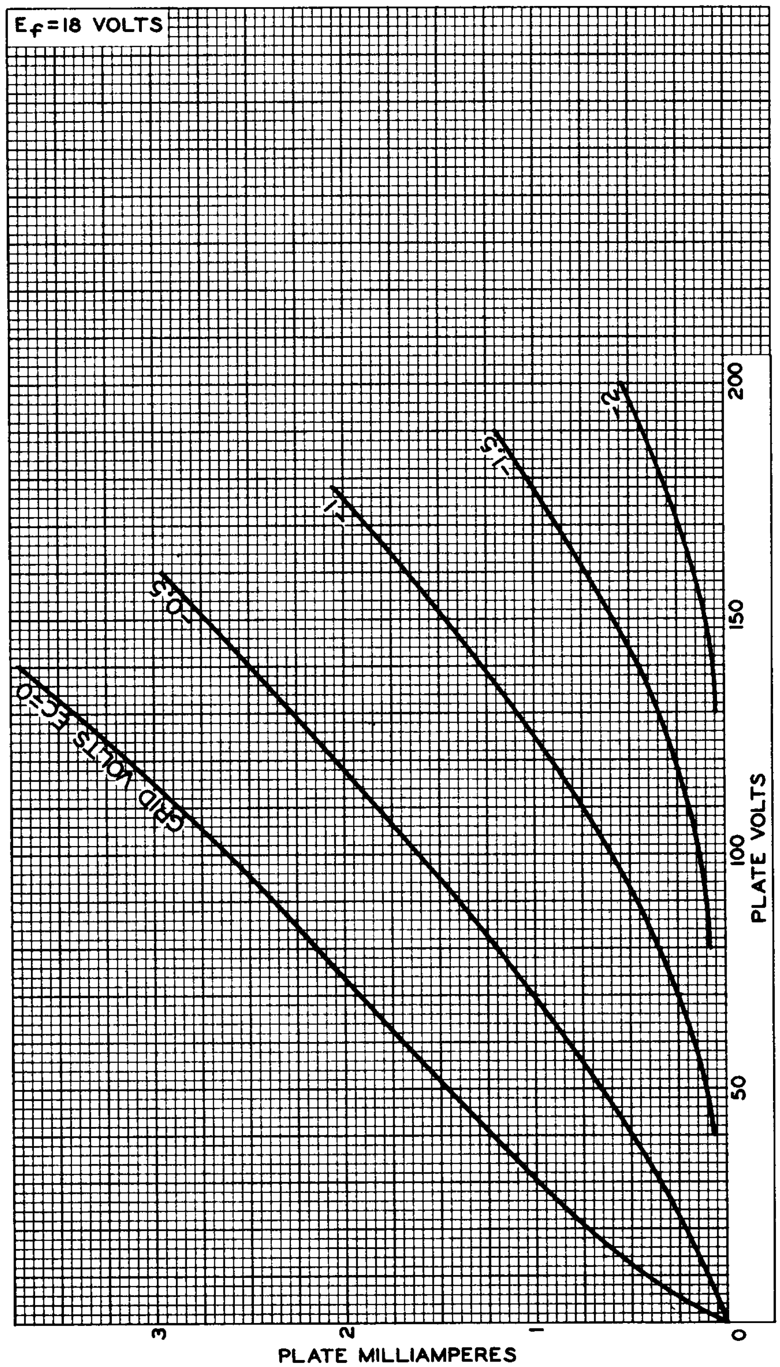
Values are for Each Unit

PLATE CURRENT	1 max.	ma

Characteristics:

Plate Current for plate volts = 10	2	ma

AVERAGE PLATE CHARACTERISTICS
Triode Unit



92CM-10775